

Form PTO-1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 8CN-8803	SERIAL NO.		
Information Disclosure Statement by Applicant <i>(Use several sheets if necessary)</i>				APPLICANT John E. Davis et al			
(37 cfr 1.98(b))				FILING DATE	GROUP		
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
11		5,855,746	1/5/99	Prabhakara, et al.			
11		5,814,400	9/29/98	Kirino, et al.			
1		5,789,756	8/4/98	Guzik			
1		5,729,393	3/17/98	Lee, et al.			
9		5,689,480	11/18/97	Kino			
7		5,666,237	9/9/97	Lewis (Abstract)			
9		5,590,115	12/31/96	Kubo			
6		5,585,159	12/17/96	Miyake, et al.			
11		5,583,705	12/10/96	Ziperovich, et al. (Abstract)			
4		5,537,034	7/16/96	Lewis (Abstract)			
9		5,533,001	7/2/96	Watanabe, et al.			
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION							
		DOCUMENT NUMBER	PUBLICATION DATE*	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
11		6-187683		Japan			
11		6-4916		Japan			
4		6-12715		Japan			
6		6-4908		Japan			
7		6-20376		Japan			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.**)							
11		"Thermoplastic Composites Reinforced With Melt Processable Glass", R.T. Young and D.G. Baird (5 pages)					
4		Philips Research - Digital Video Recorder, http://www.research.philips.com/pressmedia/highlights (2 pages)					
4		Maxell Device: DVD-RAM, http://www.maxell.co.jp/eng/device/dvd-ram/profile.html (2 pages)					
11		AV & Development Center, http://www.pioneer.co.jp/crdl/av.html (1 page)					
11		Near Field Recording - NFR, http://www.nswc.navy.mil/cosip/nov98 (5 pages)					
		Technical Info, http://209.24.93.3/tech_info/backgrounder.html (3 pages)					
EXAMINER	<i>John E. Davis</i>		DATE CONSIDERED <i>1/20/03</i>				

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449 (6-4))

* Use Publication date indicated on the patent or published application. 37 CFR 1.98(b).

** "The place or publication refers to the name of the journal, magazine or other publication in which the article was published...." Notice of January 9, 1992, 11
13 to 25, at 20.

09/845743
U.S. PTO
05/01/01

Form PTO-1449 (Modified) Information Disclosure Statement by Applicant <i>(Use several sheets if necessary)</i> (37 CFR 1.98(b))				ATTY. DOCKET NO. 8CN-8803	SERIAL NO.		
				APPLICANT John E. Davis et al			
				FILING DATE	GROUP		
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>HHS</i>		5,515,346	5/7/96	Watanabe, et al.	/	/	
"		5,493,454	2/20/96	Ziperovich, et al. (Abstract)			
"		5,490,131	2/6/96	Ohta, et al.			
"		5,489,774	2/6/96	Akamine, et al. (Abstract)			
"		5,470,627	11/28/95	Lee, et al.			
"		5,453,168	10/26/95	Nelson, et al.			
"		5,392,263	2/21/95	Watanabe, et al.			
"		5,379,439	1/3/95	Harrison, et al.			
"		5,354,985	10/11/94	Quate (Abstract)			
"		5,354,517	10/11/94	Yamasaki, et al.			
"		5,311,376	5/10/94	Joan, et al.			
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION							
		DOCUMENT NUMBER	PUBLICATION DATE*	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION
		YES	NO				
<i>HHS</i>		WO 8706385	10/22/87	World Organization (Abstract)	/	/	
"		06309714JP A	11/04/94	Japan (Abstract)			
"		06162583JP A	6/10/94	Japan (Abstract)			
"		06158281JP A	6/07/94	Japan (Abstract)			
"		06150419JP A	5/31/94	Japan (Abstract)			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.**)							
<i>HHS</i>		Strategic Partners Home, http://209.24.93.3/partners/index.html (1 page)					
		TeraStor, http://www.terastor.com/news/ (6 pages)					
<i>"</i>		The era of giant magnetoresistive heads, http://www.storage.ibm.com/hardsoft/diskdriv/technolo/gmr/ (16 pages)					
		Chp 3: Emerging Optical Storage Technologies, http://itri.loyola.edu/opto/c3_s5.htm (4 pgs.)					
<i>"</i>		Chp 3: Optical Storage in the Future, http://itri.loyola.edu/ (2 pages)					
		Chp 3: Overview of Optical Storage Systems, http://itri.loyola.edu/ (4 pages)					
EXAMINER	<i>HHS</i>		DATE CONSIDERED		<i>1/30/02</i>		
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

* Use Publication date indicated on the patent or published application. 37 CFR 1.98(b).

** "The place or publication refers to the name of the journal, magazine or other publication in which the article was published...." Notice of January 9, 1992, 11:13 to 25, at 20.

Form PTO-1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 8CN-8803	SERIAL NO.
Information Disclosure Statement by Applicant <i>(Use several sheets if necessary)</i> <i>(37 cfr 1.98(b))</i>		APPLICANT John E. Davis et al			
		FILING DATE		GROUP	

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>MFB</i>	5,309,303	5/3/94	Hsia, et al.			
<i>Y</i>	5,296,528	3/22/94	Lütjens, et al.			
<i>Y</i>	5,242,761	9/7/93	Uchiyama (Abstract)			
<i>Y</i>	5,230,025	7/20/93	Fishbine, et al.			
<i>T</i>	5,202,880	4/13/93	Lee, et al.			
<i>Y</i>	5,199,090	3/30/93	Bell			
<i>Y</i>	5,193,039	3/9/93	Smith, et al. (Abstract)			
<i>Y</i>	5,191,563	3/2/93	Lee, et al. (Abstract)			
<i>Y</i>	5,178,926	1/12/93	Tanaka, et al.			
<i>Y</i>	5,177,656	1/5/93	Hughes			
<i>Y</i>	5,171,585	12/15/92	Onisawa, et al.			

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

	DOCUMENT NUMBER	PUBLICATION DATE*	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
<i>MFB</i>	06119668JP A	4/28/94	Japan (Abstract)				
<i>Y</i>	06004908JP A	1/14/94	Japan (Abstract)				
<i>Y</i>	06004916JP A	1/14/94	Japan (Abstract)				
<i>T</i>	06187683JP A	7/08/94	Japan (Abstract)				
<i>T</i>	06020316JP A	1/28/94	Japan (Abstract)				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.**)

<i>MFB</i>		Chp 3: Comparison of Japanese and U.S. R&D, http://itri.loyola.edu/ (1 page)
		"Learning and Process Improvement during Production Ramp-Up", Christian Terwiesch and Roger E. Bohn, The Wharton School, University of California San Diego, August 6, 1998 (33 pages)
<i>Y</i>		"Magnetic Storage Research Aiming at High Areal Densities", R&D Magazine, Dec. 1998 (6 pages)
		The WTEC High Density Data Storage Study, http://itri.loyola.edu/ (2 pages)
<i>Y</i>		"Characterization of Magnetizing Process for Pre-Embossed Servo Pattern of Plastic Hard Disks", Shoji Tanaka et al., IEEE Transactions on Magnetics, Vol.30, No. 6, Nov. 1994 (3 pages)
		Dispersed Concentration, David McKendrick, Report 98-03, November, 1998, http://www-irps.ucsd.edu/~sloan/papers (16 pages)

EXAMINER	<i>Yuri B</i>	DATE CONSIDERED <i>1/31/07</i>
----------	---------------	-----------------------------------

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449 (6-4))

* Use Publication date indicated on the patent or published application. 37 CFR 1.98(b).

** The place or publication refers to the name of the journal, magazine or other publication in which the article was published....* Notice of January 9, 1992, 11 13 to 25, at 20.

Form PTO-1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 8CN-8803	SERIAL NO.
Information Disclosure Statement by Applicant <i>(Use several sheets if necessary)</i> (37 CFR 1.98(b))		APPLICANT		John E. Davis et al	
		FILING DATE		GROUP	

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
✓	5,161,134	11/3/92	Lee (Abstract)			
✓	5,159,511	10/27/92	Das (Abstract)			
✓	5,143,797	10/1/92	Hashima, et al.			
✓	5,137,991	8/11/92	Epstein, et al.			
✓	5,118,771	6/2/92	Inoue, et al.			
✓	5,112,701	5/12/92	Katsuragawa			
✓	5,112,662	5/12/92	Ng (Abstract)			
✓	5,109,377	4/28/92	Yamamoto, et al.			
✓	5,106,553	4/21/92	Onisawa, et al.			
✓	5,100,741	3/31/92	Shimoda, et al.			
✓	5,097,370	3/17/92	Hsia			

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

EXAMINER INITIAL	DOCUMENT NUMBER	PUBLICATION DATE*	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
✓	06012715JP A	1/21/94	Japan (Abstract)				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.**)

✓		Proposal to the Alfred P. Sloan Foundation from The Graduate School of International Relations and Pacific Studies and The Center For Magnetic Recording Research, Feb. 19, 1998, http://www-irps.ucse.edu/~sloan/papers/sloanprop98.html (27 pages)
		“Use of high performance resins for the planarization of magnetic rigid disk substrates”, IEEE Transactions on Magnetics (Nov. 1991), vol.27, no.6, pt.2, p.5175-7 (Abstract) (1 page)
✓		“Planarizing coating using PMR polyimides (magnetic recording discs), IBM Technical Disclosure Bulletin (Oct. 1982) vol.25, no.5, p.2453-4 (Abstract)
		“Nanoimprint lithography”, Stephen Y. Chou et al., 1996 American Vacuum Society p.4129-4133
✓		“Imprint of sub-25 nm vias and trenches in polymers”, Stephen Y. Chou et al., 1995 American Institute of Physics, p.3114-3116
		“Nano-compact disks with 400 Gbit/in ² storage density fabricated using nanoimprint lithography and read with proximal probe”, Peter R. Krauss et al, 1997 American Institute of Physics, p. 3174-3176

EXAMINER

Ken Kef

DATE CONSIDERED

1/31/92

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449 (6-4))

* Use Publication date indicated on the patent or published application. 37 CFR 1.98(b).

** The place or publication refers to the name of the journal, magazine or other publication in which the article was published....* Notice of January 9, 1992, 11 13 to 25, at 20.

Form PTO-1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 8CN-8803	SERIAL NO.
Information Disclosure Statement by Applicant <i>(Use several sheets if necessary)</i> (37 cfr 1.98(b))				APPLICANT John E. Davis et al	
				FILING DATE	GROUP

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
M	5,094,925	3/10/92	Ise, et al.			
"	5,093,174	3/3/92	Suzuki, et al.			
N	5,087,340	2/11/92	Onagi, et al.			
H	5,063,096	11/5/91	Kohara, et al.			
T	5,059,473	10/22/91	Takahashi, et al.			
G	5,018,128	5/21/91	Goldberg			
L	5,014,259	5/7/91	Goldberg, et al.			
G	5,002,706	3/26/91	Yamashita			
C	4,999,234	3/12/91	Cowan			
C	4,986,938	1/22/91	Izuka, et al.			
1	4,983,335	1/8/91	Matsuo, et al.			

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

		DOCUMENT NUMBER	PUBLICATION DATE*	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION
							YES

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.**)

M		"Patterned Media: A Viable Route to 50 Gbit/in ² and up for Magnetic Recording?", Robert J. White et al., IEEE Transactions on Magnetics, vol. 33, no. 1, Jan. 1997, p.990-995
		DATA Storage on December 02, 1999, Article Date: September, 1998, "Patterned media: 200 Gb/in ² or bust" (10 pages)
L		DATA Storage on December 06, 1999, Article Date: September, 1997, "Patterned media promise superhigh storage densities" (10 pages)
		"Recording Characteristics of Submicron Discrete Magnetic Tracks", S.E. Lambert et al., 1987 IEE, pages 3690-3692
Y		"Direct nanoimprint of submicron organic light-emitting structures", Jian Wang et al, 1999 Appl. Phys. Lett., Vol. 75, No. 18, 1 November 1999, pages 2767-2769
		"Lithographically induced self-construction of polymer microstructures for resistless patterning", Stephen Y. Chou et al., Appl. Phys. Lett., Vol. 75, No. 7, August 1999, p 1004-1005

EXAMINER	<i>Yin Bent</i>	DATE CONSIDERED
----------	-----------------	-----------------

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449 (6-4))

* Use Publication date indicated on the patent or published application. 37 CFR 1.98(b).

** "The place or publication refers to the name of the journal, magazine or other publication in which the article was published...." Notice of January 9, 1992, 11 13 to 25, at 20.

Form PTO-1449 (Modified) Information Disclosure Statement by Applicant <i>(Use several sheets if necessary)</i> (37 CFR 1.98(b))				ATTY. DOCKET NO. 8CN-8803	SERIAL NO.		
				APPLICANT John E. Davis et al			
				FILING DATE	GROUP		
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>Mur</i>		4,965,780	10/23/90	Lee, et al. (Abstract)			
'1		4,923,942	5/8/90	Takeyama, et al.			
'4		4,911,966	3/27/90	Murayama, et al.			
'7		4,908,826	3/13/90	Hertrich (Abstract)			
'9		4,902,746	2/20/90	Serini, et al.			
'4		4,893,910	1/16/90	Birecki			
'5		4,885,649	12/5/89	Das (Abstract)			
'4		4,845,142	7/4/89	Niwano, et al.			
'5		4,841,501	6/20/89	Izuka, et al.			
'1		4,809,110	2/28/89	Hertrich (Abstract)			
'6		4,741,689	5/3/88	Onizawa, et al.			
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION							
		DOCUMENT NUMBER	PUBLICATION DATE*	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION YES NO
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.**)							
<i>Mur</i>		DATA Storage on December 02, 1999, Article Date: May, 1999, "Patterned media: Giant step in magnetic storage" (7 pages)					
		DATA Storage on December 02, 1999, Article Date: January, 1999, "Magnetic Recording: the next 100 years" (10 pages)					
'1		"Architecture of TeraStor's Near Field Recording Technology, http://209.24.93.3/tech_info , (8 pages)					
		'Facts About Near Field Recording", http://www.basis-gmbh.de , (2 pages)					
'5		"US HDD Makers Turn to 10-Gbit/inch ² Near Field Record", http://www.nikkeibp.com , (8 pages)					
		'Facts About Near Field Recording", http://209.24.93.3/tech_info , (3 pages)					
EXAMINER	<i>Kent Beck</i>		DATE CONSIDERED		<i>1/30/03</i>		
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

* Use Publication date indicated on the patent or published application. 37 CFR 1.98(b).

** The place or publication refers to the name of the journal, magazine or other publication in which the article was published.... Notice of January 9, 1992, 11 13 to 25, at 20.

Form PTO-1449 (Modified)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 8CN-8803	SERIAL NO.
Information Disclosure Statement by Applicant <i>(Use several sheets if necessary)</i> (37 CFR 1.98(b))		APPLICANT John E. Davis et al	
		FILING DATE	GROUP

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>MHS</i>	4,726,998	2/23/88	Ikenaga, et al.			
<i>W</i>	4,719,171	1/12/88	Ikenaga, et al.			
<i>W</i>	4,658,392	4/14/87	Langowski, et al.			
<i>W</i>	4,656,546	4/7/87	Mallory (Abstract)			
<i>W</i>	4,622,284	11/11/86	West, et al. (Abstract)			
<i>W</i>	4,596,740	6/24/86	Tsukane			
<i>W</i>	4,596,739	6/24/86	Piltingsrud, et al.			
<i>W</i>	4,569,871	2/11/86	Ohmori, et al.			
<i>W</i>	4,503,420	3/5/85	Rub, et al. (Abstract)			
<i>W</i>	4,441,179	4/3/84	Slaten			
<i>W</i>	4,415,942	11/15/83	Frosch, et al.			

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

	DOCUMENT NUMBER	PUBLICATION DATE*	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

EXAMINER <i>Klein Bob</i>	DATE CONSIDERED <i>1/30/07</i>
------------------------------	-----------------------------------

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449 [6-4])

* Use Publication date indicated on the patent or published application. 37 CFR 1.98(b).

** "The place or publication refers to the name of the journal, magazine or other publication in which the article was published...." Notice of January 9, 1992, 11 13 to 25, at 20.

Form PTO-1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 8CN-8803	SERIAL NO.
Information Disclosure Statement by Applicant <i>(Use several sheets if necessary)</i>				APPLICANT John E. Davis et al	
(37 cfr 1.98(b))				FILING DATE	GROUP

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>MHS</i>	4,515,828	5/07/85	Economy (Abstract)			
"	5,723,033	3/03/98	Weiss			
"	5,907,448	5/25/99	Watanabe, et al.			
"	4,877,666	10/31/89	Muchnik, et al. (Abstract)			
"	4,896,292	1/23/90	Eich, et al. (Abstract)			
"	4,911,967	3/27/90	Lazzari (Abstract)			
"	4,964,934	10/23/90	Gregg (Abstract)			
"	4,975,358	12/04/90	Sonnenschein, et al. (Abstract)			
"	5,018,962	5/28/91	Kitamura, et al. (Abstract)			
"	5,068,065	11/26/91	Maus, et al. (Abstract)			
"	5,096,563	3/17/92	Yoshizawa, et al. (Abstract)			

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

	DOCUMENT NUMBER	PUBLICATION DATE*	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

EXAMINER

Klein Best

DATE CONSIDERED

1/30/03

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449 (6-4))

* Use Publication date indicated on the patent or published application. 37 CFR 1.98(b).

** "The place or publication refers to the name of the journal, magazine or other publication in which the article was published...." Notice of January 9, 1992, 11 13 to 25, at 20.

Form PTO-1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 8CN-8803	SERIAL NO.
Information Disclosure Statement by Applicant (37 CFR 1.98(b))		APPLICANT			
		John E. Davis et al			
		FILING DATE		GROUP	

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>M</i>	5,120,603	6/09/92	Schmidt (Abstract)			
"	5,164,465	11/17/92	Epstein, et al. (Abstract)			
"	5,267,112	11/30/93	Batra, et al. (Abstract)			
"	5,276,098	1/04/94	Kohara, et al. (Abstract)			
"	5,582,891	12/10/96	Murakami, et al. (Abstract)			
"	5,585,989	12/17/96	Kuromiya, et al. (Abstract)			
"	5,669,995	9/23/97	Hong (Abstract)			
"	5,751,452	5/12/98	Tanaka, et al. (Abstract)			
"	5,804,017	9/08/98	Hector (Abstract)			
"	5,807,498	9/15/98	Gibbons, et al. (Abstract)			
"	5,808,830	9/15/98	Stefansky, et al. (Abstract)			

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

		DOCUMENT NUMBER	PUBLICATION DATE*	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.**)

EXAMINER <i>Wain Berney</i>	DATE CONSIDERED <i>1/30/03</i>
-----------------------------	--------------------------------

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449 (6-4))

* Use Publication date indicated on the patent or published application. 37 CFR 1.98(b).
 ** "The place or publication refers to the name of the journal, magazine or other publication in which the article was published...." Notice of January 9, 1992, 11
 13 to 25, at 20.

Form PTO-1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 8CN-8803	SERIAL NO.		
Information Disclosure Statement by Applicant <i>(Use several sheets if necessary)</i> (37 cfr 1.98(b))				APPLICANT John E. Davis et al			
				FILING DATE	GROUP		
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>Meb</i>		5,820,769	10/13/98	Chou (Abstract)			
"		5,846,627	12/08/98	Hong (Abstract)			
<i>Y</i>		5,859,833	1/12/99	Chaterjee, et al. (Abstract)			
<i>Y</i>		RE 34,506	1/11/94	Dobbin, et al. (Abstract)			
<i>T</i>		6,066,380	5/23/00	Oyanagi, et al.			
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION							
		DOCUMENT NUMBER	PUBLICATION DATE*	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION
							YES NO
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.**)							
EXAMINER <i>Keri M. Bect</i>		DATE CONSIDERED <i>1/30/03</i>					
<small>*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</small>							

* Use Publication date indicated on the patent or published application. 37 CFR 1.98(b)

* Use Publication date indicated on the Acquisitions slip.

Use / publication date indicated on the patent or published application. 37 CFR 1.98(b).

The place of publication refers to the name of the journal, magazine or other publication in which the article was published.

(Form PTO-1449 [6-4])

(Form PTO-1449 [6-4])



INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

JUN 21 2002

ATTY DOCKET NO.

08CN8803-2

SERIAL NO.

09/845,743

FEIST, ET AL.

FILING

MAY 1, 2001

GROUP

1773

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
164	5,902,172	05/11/99	Utashiro (Abstract)			
1	5,900,126	05/04/99	Nelson, et al. (Abstract)			
9	5,897,578	03/09/99	Chung, et al. (Abstract)			
1	5,874,376	02/23/99	Taguchi, et al. (Abstract)			
9	5,871,654	02/16/99	Mannami, et al. (Abstract)			
9	5,868,953	02/09/99	Maekawa, et al. (Abstract)			
1	5,866,489	02/02/99	Yamaguchi (Abstract)			
9	5,855,951	01/05/99	Nelson, et al. (Abstract)			
1	5,846,280	12/08/98	Speit (Abstract)			
9	5,831,309	11/03/98	Englisch, et al. (Abstract)			
1	5,811,182	09/22/98	Weir, et al. (Abstract)			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
164	JP 09237437	09/09/1997	Japan			✓	
1	JP 63205817	25/08/1988	Japan				✓

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER

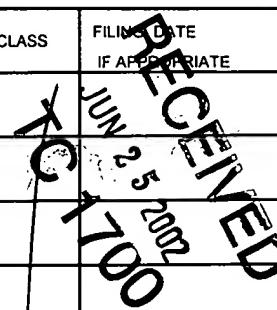
DATE CONSIDERED

1/30/02

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<p style="text-align: center;">O P INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i></p> <p style="text-align: center;">JUN 21 2002</p> <p style="text-align: center;">CC26</p> <p style="text-align: center;">PATENT & TRADEMARK OFFICE</p>				ATTY DOCKET NO. 08CN8803-21		SERIAL NO. 09/845,743	
				FEIST, ET AL.		FILING MAY 1, 2001	
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>W</i>	14	5,800,895	09/01/98	Vygovsky, et al. (Abstract)	1		
<i>Y</i>	15	5,726,108	03/10/98	Taguchi, et al. (Abstract)			
<i>S</i>	16	5,707,705	01/13/98	Nelson, et al. (Abstract)			
<i>Y</i>	17	5,691,256	11/25/97	Taguchi, et al. (Abstract)			
<i>L</i>	18	5,681,635	10/28/97	Nelson, et al. (Abstract)			
<i>S</i>	19	5,663,016	09/02/97	Hong (Abstract)			
<i>S</i>	20	5,635,269	06/03/97	Weir, et al. (Abstract)			
<i>S</i>	21	5,629,417	05/13/97	Campbell, et al. (Abstract)			
<i>S</i>	22	5,626,935	05/06/97	Goto, et al. (Abstract)			
<i>S</i>	23	5,626,920	05/06/97	Weir, et al. (Abstract)			
<i>{</i>	24	5,622,816	04/22/97	Maenza, et al. (Abstract)			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
EXAMINER <i>Kin</i>			DATE CONSIDERED <i>11/30/03</i>				

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION <small>(Use several sheets if necessary)</small>				ATTY DOCKET NO. 08CN8803-21		SERIAL NO. 09/845,743	
				FEIST, ET AL.		FILING MAY 1, 2001	
JUN 21 2002				U.S. PATENT DOCUMENTS			
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
<i>HJ</i>	25 5,567,217	10/22/96	Goto, et al. (Abstract)	1			
<i>vt</i>	26 5,561,089	10/01/96	Ishizaki, et al. (Abstract)				
<i>h</i>	27 5,536,549	07/16/96	Nelson, et al. (Abstract)				
<i>h</i>	28 5,516,899	05/14/96	Campbell, et al. (Abstract)				
<i>jl</i>	29 5,510,164	04/23/96	Best, et al. (Abstract)				
<i>h</i>	30 5,469,312	11/21/95	Watanabe, et al. (Abstract)				
<i>h</i>	31 5,468,324	11/21/95	Hong (Abstract)				
<i>h</i>	32 5,453,961	09/26/95	Brazas (Abstract)				
<i>h</i>	33 5,441,788	08/15/95	Bloomquist, et al. (Abstract)				
<i>h</i>	34 5,437,887	08/01/95	Yarkosky, et al. (Abstract)				
<i>h</i>	35 5,400,317	03/21/95	Strasser, et al. (Abstract)				
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
EXAMINER <i>John Brey</i>			DATE CONSIDERED <i>1/30/03</i>				

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

 INFORMATION DISCLOSURE CITATION <small>(Use several sheets if necessary)</small>				ATTY DOCKET NO. 08CN8803-2		SERIAL NO. 09/845,743			
				FEIST, ET AL.					
<small>JUN 21 2002</small> <small>JC2</small>				FILING MAY 1, 2001	GROUP 1773				
U.S. PATENT DOCUMENTS									
EXAMINER	TRADEMARK OFFICE	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILED DATE IF APPROPRIATE		
 36 37 38 39 40 41 42 43 44 45 46	 5,391,522 5,366,542 5,234,717 5,226,955 5,209,837 5,166,014 5,137,617 5,131,977 5,128,922 5,108,781 5,091,225	02/21/95	Goto, et al. (Abstract)						
		11/22/94	Yamada, et al. (Abstract)						
		08/10/93	Matsuno, et al. (Abstract)						
		07/13/93	Owaki, et al. (Abstract)						
		05/11/93	Tsuya, et al. (Abstract)						
		11/24/92	Ledieu (Abstract)						
		08/11/92	Helfet, et al. (Abstract)						
		07/21/92	Morizane, et al. (Abstract)						
		07/07/92	Inui, et al. (Abstract)						
		04/28/92	Ranjan, et al. (Abstract)						
02/25/92	Goto (Abstract)								
FOREIGN PATENT DOCUMENTS									
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION		
								YES	NO
OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>									
EXAMINER		DATE CONSIDERED							
		<small>1/3/03</small>							
<small>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</small>									


INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

 ATTY DOCKET NO.
08CN8803-21

 SERIAL NO.
09/845,743

FEIST, ET AL.
FILING
MAY 1, 2001
GROUP
1773
U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE APPROPRIATE
1/1/03	47	5,087,481	02/11/92	Chen, et al. (Abstract)			
11	48	5,084,355	01/28/92	Takahashi, et al. (Abstract)			
1	49	5,082,728	01/21/92	Miyake, et al. (Abstract)			
4	50	5,074,971	12/24/91	Tsuya, et al. (Abstract)			
1	51	5,047,274	09/10/91	Tsuya, et al. (Abstract)			
1	52	4,996,622	02/26/91	Takatsuki, et al. (Abstract)			
4	53	4,985,306	01/15/91	Morizane, et al. (Abstract)			
1	54	4,971,932	11/20/90	Alpha, et al. (Abstract)			
1	55	4,956,015	09/11/90	Okajima, et al. (Abstract)			
4	56	4,953,385	09/04/90	Aoki, et al. (Abstract)			
1	57	4,931,147	06/05/90	Legierse, et al. (Abstract)			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

EXAMINER
DATE CONSIDERED
1/30/03

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				ATTY DOCKET NO. 08CN8803-21	SERIAL NO. 09/845,743		
				FEIST, ET AL.			
FILING MAY 1, 2001				GROUP 1773			
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>hwb</i>	58	4,925,738	05/15/90	Tsuya, et al. (Abstract)			<i>JUN 25 2002</i>
<i>r</i>	59	4,920,441	04/24/90	Kimura, et al. (Abstract)			<i>RECEIVED JUN 25 2002 C 1700</i>
<i>g</i>	60	4,876,117	10/24/89	Bornstein (Abstract)			
<i>l</i>	61	4,839,244	06/13/89	Tsukamoto (Abstract)			
<i>q</i>	62	4,835,909	06/06/89	Richter, et al. (Abstract)			
<i>h</i>	63	4,825,680	05/02/89	Coe, et al. (Abstract)			
<i>h</i>	64	4,808,455	02/28/89	Wada, et al. (Abstract)			
<i>h</i>	65	4,775,608	10/04/88	Baum, et al. (Abstract)			
<i>l</i>	66	4,737,877	04/12/88	Krongelb, et al. (Abstract)			
<i>l</i>	67	4,719,171	01/12/88	Ikenaga, et al. (Abstract)			
<i>q</i>	68	4,709,361	11/24/87	Dahlstrom, et al. (Abstract)			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
							YES
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
EXAMINER <i>John Bent</i>				DATE CONSIDERED <i>1/30/03</i>			
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.


INFORMATION DISCLOSURE CITATION

JUN 21 2002

(C Use several sheets if necessary)

ATTY DOCKET NO.
08CN8803-2

SERIAL NO.
09/845,743

FEIST, ET AL.

FILING

MAY 1, 2001

GROUP

1773

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
M	69	4,708,919	11/24/87	Shimkunas, et al. (Abstract)			
L	70	4,705,566	11/10/87	Senda, et al. (Abstract)			
L	71	4,698,716	10/06/87	Lazzari (Abstract)			
C	72	4,690,846	09/01/87	Wada, et al. (Abstract)			
L	73	4,678,547	07/07/87	Miyamoto, et al. (Abstract)			
L	74	4,659,605	04/21/87	Malik, et al. (Abstract)			
L	75	4,619,804	10/28/86	Leonard, et al. (Abstract)			
L	76	4,590,493	05/20/86	Inoue, et al. (Abstract)			
L	77	4,554,655	11/19/85	Kumasaka, et al. (Abstract)			
L	78	4,552,820	11/12/85	Lin, et al. (Abstract)			
L	79	4,430,387	02/07/84	Nakagawa, et al. (Abstract)			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER

DATE CONSIDERED

1/30/03

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

ATTY DOCKET NO.
08CN8803-2SERIAL NO.
09/845,743

FEIST, ET AL.

FILING

MAY 1, 2001

GROUP

1773

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
✓	80	4,419,704	12/06/83	Radman, et al. (Abstract)	/	/	JUN 25 2002 TC 1700
✓	81	4,404,238	09/13/83	Baldwin (Abstract)	/	/	
✓	82	4,402,798	09/06/83	Gorog, et al. (Abstract)	/	/	
✓	83	4,329,697	05/11/82	Bell (Abstract)	/	/	
✓	84	4,305,081	12/08/81	Spong (Abstract)	/	/	
✓	85	4,222,070	09/09/80	Howe, et al. (Abstract)	/	/	
✓	86	4,206,256	06/03/80	Matthies, et al. (Abstract)	/	/	
✓	87	4,057,831	11/08/77	Jacobs, et al. (Abstract)	/	/	
✓	88	5,538,774	07/23/96	Landin, et al.	/	/	
✓	89	5,585,159	12/17/96	Miyake, et al.	/	/	
✓	90	5,585,989	12/17/96	Kuromiya, et al.	/	/	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
✓	91	CA 2259483	08/01/1998	Canada (Abstract)	/	/	✓	
✓	82	CA 1323697	26/10/1993	Canada (Abstract)	/	/	✓	

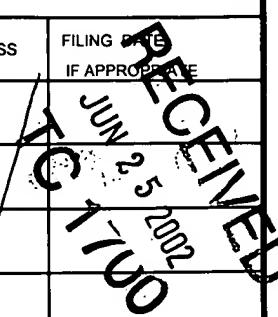
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER

DATE CONSIDERED

1/30/03

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<p style="text-align: center;">O P INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)</p> <p style="text-align: right;">JUN 21 2002 JC26</p> <p style="text-align: left;">PATENT & TRADEMARK OFFICE</p>				ATTY DOCKET NO. 08CN8803-		SERIAL NO. 09/845,743	
				FEIST, ET AL.		FILING MAY 1, 2001	
U.S. PATENT DOCUMENTS							
INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
MM	93 5,875,083	02/23/99	Oniki, et al.				
Y	94 5,900,318	05/04/99	Yanagisawa				
Y	95 5,948,495	09/07/99	Stanish, et al.				
Y	96 5,981,015	11/09/99	Zou, et al.				
Y	97 6,030,681	02/29/00	Czubarow, et al.				
Y	98 6,236,542 B1	05/22/01	Hartog, et al.				
Y	99 6,347,016 B1	02/12/02	Ishida, et al.				
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
EXAMINER 			DATE CONSIDERED 1/30/03				
<p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>							